AMIRTHA VARSHINI E

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CAREER OBJECTIVE

FULL-STACK DEVELOPER IN PROGRESS

- Transitioning into Full Stack Development with strong analytical and problem-solving skills.
- Passionate about building scalable, user-friendly web applications using modern technologies.
- Skilled in Python, JavaScript, Flask, React, and PostgreSQL, with experience in frontend, backend, and deployment.
- Keen to contribute to innovative projects and continuously learn new technologies in a dynamic environment.
- Dedicated to writing clean, maintainable code and delivering high-quality solutions that create real impact.

SKILLS

Tools: VS Code | GitHub | Figma | Canva | SQL | Vercel | Render
Technologies & Frameworks: Backend - Flask, Node.js, Express.js, NestJS, Redis, SQLAlchemy, PostgreSQL, TypeORM | Frontend - HTML, CSS, Bootstrap, Vue.js, React.js, Next.js, Mantine UI
Programming: Advanced - Python | Intermediate - JavaScript, Java | Basic - C, C++

WORK EXPERIENCE

Junior Accounts Executive - VERANDA RACE | Nov 2021 - Mar 2023 | Chennai, Tamil Nadu 600035
- Handled payment processing and franchise disbursements, identifying discrepancies and optimizing reconciliation to improve financial accuracy by 25%.
- Automated repetitive accounting workflows using Excel macros and scripting, reducing manual work by 80% and report generation time by 50%.
- Enhanced operational efficiency through structured, data-driven problem-solving, increasing workflow speed by 30% and improving cross-branch coordination.

EDUCATION

Indian Institute of Technology Madras | Year: 2024-Present
Bsc in Data Science and Application - **CGPA: 9/10**
Coursework: Computational Thinking | Programming in Python | Database Management Systems | Programming, Data Structures and Algorithms using Python | Modern Application Development I | Modern Application Development I - Project | Programming Concepts using Java | Modern Application Development II | Modern Application Development II - Project | System Commands
Justice Basheer Ahmed Sayeed College for Women | Year: 2018-2021
Bachelor of Commerce - **CGPA: 7.6/10**

PROJECTS

Job Portal – Full-Stack Web Application (In Progress)
- Designed and developed a job creation module integrated with a live NestJS backend, ensuring seamless data validation and persistence using TypeORM and PostgreSQL.
- Deployed backend APIs on Render and connected the Next.js + Mantine UI frontend via Vercel, enabling continuous integration and live updates.
- Aiming to extend into a complete job management system with authentication, search filters, and role-based CRUD features for HR automation.
Tech Stack: Next.js | Mantine UI | NestJS | TypeORM | PostgreSQL | Render | Vercel
Github: [Job portal](#)

Interactive Quiz Web Application - Version 2
- Built a full-stack quiz platform using Flask-RESTful, SQLAlchemy, Vue.js, Bootstrap, and Chart.js, implementing role-based access and REST APIs for modular scalability.
- Developed a responsive SPA with admin dashboards, student portals, and real-time scoring with countdown timers.
- Streamlined manual quiz operations through API-first architecture and integrated analytics, reducing admin effort by 70% and boosting system efficiency by 50%.
GitHub: [Quiz Master App - Version 2](#)

Interactive Quiz Web Application - Version 1
- Developed a web-based quiz system using Flask, JavaScript, HTML, CSS, and Chart.js, featuring an admin panel for subject and quiz management, timed auto-evaluation, and result visualization.
- Built a responsive, user-friendly interface with interactive analytics to enhance exam preparation and improve user engagement by 40%.
GitHub: [Quiz Master App](#)

ACHIEVEMENTS

Secured a 9.0 CGPA in Diploma in Programming, demonstrating strong academic performance and technical proficiency. Served as Deputy Head for Robo Soccer at IIT Madras, leading event planning and execution for an autonomous robotics competition.